

16.10      STEAM AND POWER CONVERSION SYSTEMS

16.10.1    CONDENSATE INVENTORY REQUIREMENTS FOR EMERGENCY  
FEEDWATER

COMMITMENT

The combined inventory stored in the Upper Surge Tanks (UST) and the Hotwell shall be maintained greater than 145,000 gallons of water.

APPLICABILITY

Applies to any Oconee Unit at Power Operations Mode (i.e., Reactor Power > 2% full power).

ACTION:

If the combined inventory stored in the UST and the Hotwell is  $\leq$  145,000 gallons,

- a. Makeup to the UST to restore inventory > 145,000 gallons within 12 hours.
- b. If the required inventory cannot be restored within 12 hours, then place the unit in a hot shutdown condition within an additional 12 hours.

SURVEILLANCE:

The UST and Hotwell levels shall be monitored twice per shift to verify the combined inventory is > 145,000 gallons (Reference Figure 1).

BASES:

The EFW design basis requires sufficient water supply be available to cool the Reactor Coolant System, to the point at which the Low Pressure Injection System can provide decay heat removal, after any of the design basis transients for the EFW system (Reference 3). The upper surge tanks are the assured, safety-related water source for the EFW system. The minimum Tech. Spec. level of 6 feet ensures that adequate time is available to the operator to manually align alternate sources (Reference 2). The hotwell, which is a non safety-related source, provides this alternate supply of water. Makeup may be available from the condensate storage tanks and the plant demineralized water system, but no

credit will be taken for these additional makeup sources in this SLC.

FSAR Section 10.4.7 states that an inventory of 145,000 gallons of water is required for a 50°F/hr cooldown to the point at which the Low Pressure Injection System can provide decay heat removal. This inventory is based on an initial power level of 102% prior to the loss of main feedwater. The reactor coolant pumps are assumed to be left on to maximize the heat input. This inventory also assumes no recirculation via the turbine bypass valves.

REFERENCES:

1. FSAR Section 10.4.7.1
2. Technical Specification 3.4
3. Design Basis Specification for the Emergency Feedwater and the Auxiliary Service Water Systems, Spec. OSS-0254.00-00-1000
4. OSC-5964, EFW Combined Inventory

STATION MANAGER APPROVAL:

*BW*

DATE

*8-15-96*

REQUIRED INVENTORY FOR EFW

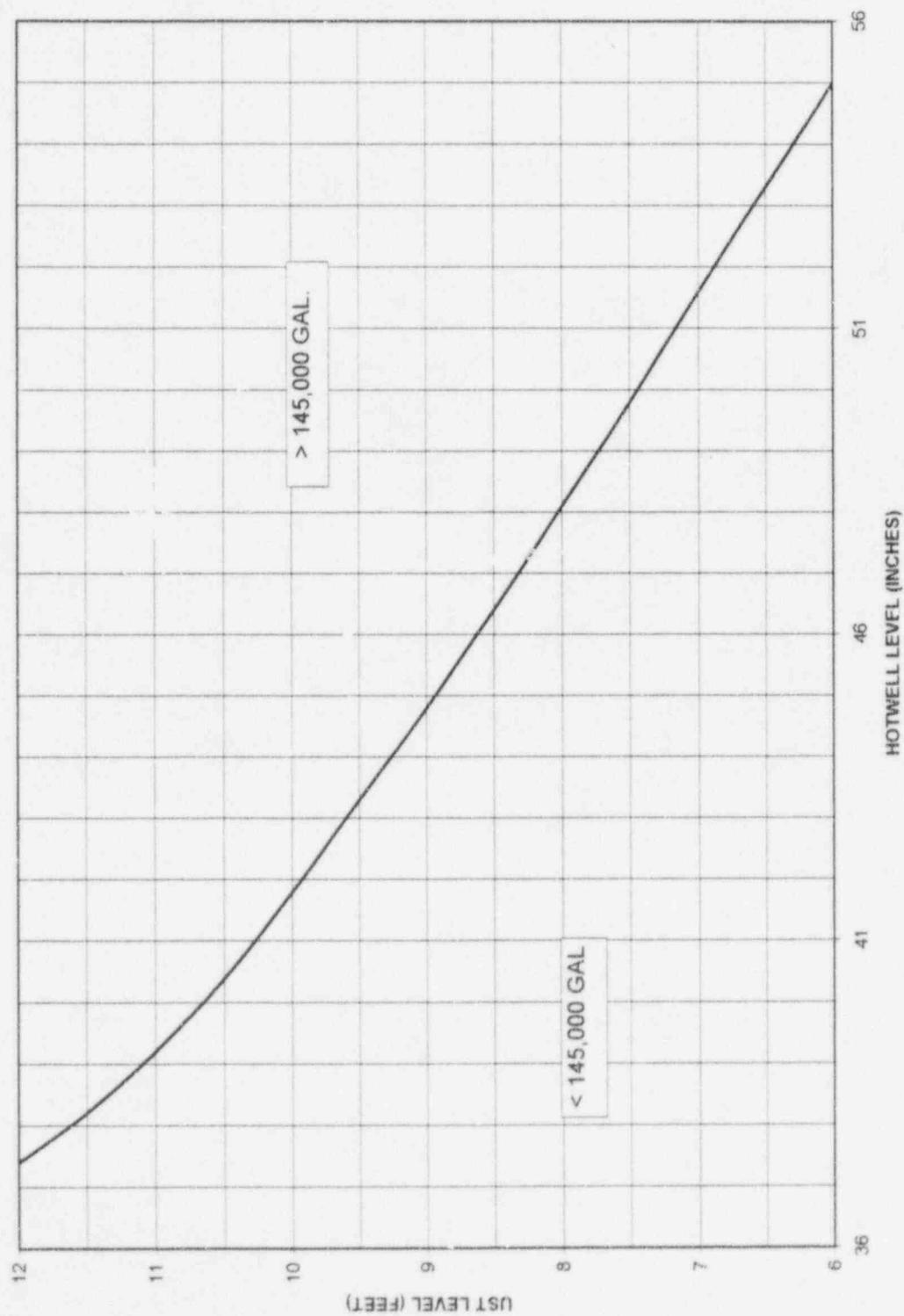


FIGURE 1